

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Tarek Fahmi (Reg. No. 41,402) on December 4, 2009 and December 7, 2009.

2. The application has been amended as follows:

Claim 1. (Currently Amended) A method in a data processing system for synchronizing calls at a client in a server and client system, comprising the steps of:

receiving from the server a plurality of service calls generated by a plurality of threads executed at the server, wherein said service calls are generated asynchronously;

receiving a synchronization call from the server, said synchronization call being a separate and different type of call from the service calls and indicating that one of said plurality of threads executed at the server has changed and indicating a number of service calls generated by said plurality of threads at the server prior to the thread change; and

placing at least one of said service calls associated with said synchronization call into a wait position, said at least one of said service calls corresponding to said changed thread, when said number of service calls indicated in said synchronization call and said number of service calls executed at the client prior to receiving said synchronization call differ,

wherein said synchronization call and said service calls are received in an arbitrary order; said service calls are associated with said synchronization call by one of including respective identifiers into said at least one of said synchronization call and said service calls, and indicating one of a specific reception sequence and order of service of said service calls and said at least one synchronization call at the client; and said service calls from said plurality of threads at the server are executed in corresponding threads at the client.

Claim 2 Cancelled.

Claim 4 Cancelled.

Claim 8 Cancelled.

Claim 9 Cancelled.

Claim 12 (Currently Amended) A method in a data processing system for synchronizing calls at a server in a server and client system, comprising the steps of:

transmitting a plurality of service calls generated by a plurality of threads at the server to a client, wherein said service calls are generated asynchronously;

generating a synchronization call when a thread of said plurality of threads executed at the server changes, said synchronization call being a separate and different type of call from the service calls and indicating a number of service calls generated by said plurality of threads at the server prior to the thread change, placing at least one of said service calls associated with said

synchronization call into a wait position, said at least one of said service calls corresponding to said changed thread; and

transmitting said synchronization call to the client to allow the client to synchronize a service call execution,

wherein said service calls from said plurality of threads at the server are executed in corresponding threads at the client; said service calls are associated with said synchronization call by one of including respective identifiers into said at least one of said synchronization call and said service calls, and indicating one of a specific reception sequence and order of service of said service calls and said at least one synchronization call at the client; and said synchronization call and said number of service calls are transmitted to the client in an arbitrary order.

Claim 13 Cancelled.

Claim 14 Cancelled.

Claim 17 (Currently Amended) The method according to claim 15, wherein said synchronization call includes said second thread identifier of said second thread, and said number of service calls include a thread identifier of each thread generating said service call; ~~and wherein said synchronization call and said number of service calls are transmitted to the client in an arbitrary order.~~

Claim 18 Cancelled.

Claim 22 (Currently Amended) A method in a data processing system for synchronizing calls in a client and server system, the method comprising the steps of:

transmitting a plurality of service calls generated by a plurality of threads executed at the server to the client, wherein said service calls are generated asynchronously;

generating a synchronization call at the server, said synchronization call being a separate and different type of call from the service calls and indicating that one of said plurality of threads executed at the server has changed and indicating a number of service calls generated by said plurality of threads at the server prior to the thread change;

transmitting said synchronization call to the client to allow the client to synchronize a service call execution;

receiving said synchronization call at the client; and

placing at least one of said service calls associated with said synchronization call into a wait position, said at least one of said service calls corresponding to said changed thread, if said number indicated in said synchronization call and said number of service calls executed at the client prior to receiving said synchronization call differ,

wherein said synchronization call and said service calls are received in an arbitrary order; said service calls are associated with said synchronization call by one of including respective identifiers into said at least one of said synchronization call and said service calls, and indicating

one of a specific reception sequence and order of service of said service calls and said at least one synchronization call at the client; and said service calls from said plurality of threads at the server are executed in corresponding threads at the client.

Claim 23 (Currently Amended) A computer readable storage medium containing instructions that cause a data processing system to perform a method of synchronizing calls in a client and a server system, the method comprising the steps of:

transmitting a plurality of service calls generated by a plurality of threads executed at the server to the client, wherein said service calls are generated asynchronously;

generating a synchronization call at the server, said synchronization call being a separate and different type of call from the service calls and indicating that one of said plurality of threads executed at the server has changed and indicating a number of service calls generated by said plurality of threads at the server prior to the thread change;

transmitting said synchronization call to the client to allow the client to synchronize a service call execution;

receiving said synchronization call at the client; and

placing at least one of said service calls associated with said synchronization call into a wait position, said at least one of said service calls corresponding to said changed thread, if said number indicated in said synchronization call and said number of service calls executed at the

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client prior to receiving said synchronization call differ,

wherein said synchronization call and said service calls are received in an arbitrary order; said service calls from said plurality of threads at the server are executed in corresponding threads at the client; and said service calls are associated with said synchronization call by one of including respective identifiers into said at least one of said synchronization call and said service calls, and indicating one of a specific reception sequence and order of service of said service calls and said at least one synchronization call at the client.

Claim 24 Cancelled.

In claim 25, at line 2, replace "24" with -- 23--.

In claim 29, at line 2, replace "26" with -- 25--.

Claim 30 Canceled.

Claim 31 Canceled.

In claim 32, at line 2, replace "26" with --25--.

In claim 33, at line 2, replace "24" with -- 23--.

Claim 34 (Currently Amended) A data processing system for synchronizing calls in a client and server system, the data processing system comprising:

a client computer comprising:

a memory including a client program that receives a plurality of service calls generated by a plurality of threads executed at the server, wherein said service calls are generated asynchronously, that receives a synchronization call from the server, said synchronization call being a separate and different type of call from the service calls and indicating that one of said plurality of threads executed at the server has changed and indicating a number of service calls generated by said plurality of threads at the server prior to the thread change, and that places at least one of said service calls associated with said synchronization call into a wait position, said at least one of said service calls corresponding to said changed thread, if said number indicated in said synchronization call and said number of service calls executed at the client prior to receiving said synchronization call differ; and

a first processor that runs said client program;

a server computer comprising:

a memory including a server program that transmits the plurality of service calls generated by the a plurality of threads at the server to the client, that generates the a synchronization call when a thread of said plurality of threads executed at the server changes,

said synchronization call indicating a number of service calls generated by said plurality of threads at the server prior to the thread change, and that transmits said synchronization call to the client to allow the client to synchronize a service call execution; and

a second processor that runs said server program; and

a network connecting said client computer and said server computer,

wherein said synchronization call and said service calls are received in an arbitrary order; said service calls are associated with said synchronization call by one of including respective identifiers into said at least one of said synchronization call and said service calls, and indicating one of a specific reception sequence and order of service of said service calls and said at least one synchronization call at the client; and said service calls from said plurality of threads at the server are executed in corresponding threads at the client.

Claim 35 (Currently Amended) An apparatus for synchronizing calls in a client and server system, the apparatus comprising:

means for transmitting a plurality of service calls generated by a plurality of threads executed at the server to the client, wherein said service calls are generated asynchronously;

means for generating a synchronization call at the server, said synchronization call being a separate and different type of call from the service calls and indicating that one of said plurality of threads executed at the server has changed and indicating a number of service calls generated by said plurality of threads at the server prior to the thread change;

means for transmitting said synchronization call to the client to allow the client to synchronize a service call execution;

means for receiving said synchronization call at the client; and
means for placing at least one of said service calls associated with said synchronization call into

a wait position, said at least one of said service calls corresponding to said changed thread, if said number indicated in said synchronization call and said number of service calls executed at the client prior to receiving said synchronization call differ,

wherein said synchronization call and said service calls are received in an arbitrary order; said service calls are associated with said synchronization call by one of including respective identifiers into said at least one of said synchronization call and said service calls, and indicating one of a specific reception sequence and order of service of said service calls and said at least one synchronization call at the client; and said service calls from said plurality of threads at the server are executed in corresponding threads at the client.

3. The drawings filed 4/9/2002 are accepted by examiner.

4. The following is an examiner's statement of reasons for allowance:

As to claims 1, 3, 5-7, 10-12, 15-17, 19-23, 25, 27-29, and 32-35, the prior art of record does not teach or render obvious the limitations recited in claims 1, 12, 22, 23, 34 and 35, when taken in the context of the claims as a whole, specific to a method in a data processing system for synchronizing calls at a client in a server and client system, the method comprising: receiving at the client from the server a plurality of service calls generated by a plurality of threads executed at the server, the service calls from the plurality of threads at the server are executed in corresponding threads at the client, wherein the service calls are generated asynchronously, receiving at the client a synchronization call from the server, the synchronization call is a separate and different type of call from the service calls and indicating that one of the plurality of

threads executed at the server has changed and indicating a number of service calls generated by the plurality of threads at the server before to the thread change, wherein the synchronization call the service calls are received in an arbitrary order, placing at least one of the service calls associated with the synchronization call into a wait position, the at least one the services calls corresponding to the changed thread, when the number of services call indicated in the synchronization call and the number of service calls executed at the client prior to receiving the synchronization call are different, wherein the service calls are associated with the synchronization call by one of including respective identifiers into the at least one of the synchronization call and the service calls, and indicating one of a specific reception sequence and order of the service of the services call and the at least one synchronization call at the client.

Moreover, evidence for modifying the prior art teachings by one of ordinary skill level in the art was not uncovered so as to result in the invention as recited in claims 1, 12, 22, 23, 34 and 35.

Claim 35 is an apparatus claim with “means for” limitations, and examiner interpreted the claim according to USC 112, sixth paragraph, in which the “means for” covering the functions recited in the claim and the physical structure disclosed in the specification for performing the recited functions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIEM K. CAO whose telephone number is (571)272-3760. The examiner can normally be reached on Monday - Friday, 7:30AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung Sough can be reached on (571) 272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DIEM K CAO/
Primary Examiner
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DC
December 7, 2009